

# Hind Junior College – Shajapur (M.P.)

## Final Exams

### Computer Science (New) – (Code No. 083)

Class XI – [Year 2019-2020]

Maximum Marks: 70

Total Time - 3 Hrs.

Date: 19 Feb 2020

**\*Important** Instruction: All Questions are compulsory

### Section A

#### (Unit 1 - Computer Systems and Organization) [10 Marks]

Q. No.	Question	Marks
1	What are the three types of Language Processor?	1
2	Arrange the following in ascending order: Tera byte, bit, MB, KB	1
3	What is Unicode?	1
4	What is the difference between compiler and interpreter?	1
5	Which of the following are not input devices? (i) Keyboard (ii) Microphone (iii) Projector (iv) Headphones	1
6	Name any 2 temporary storage devices of the computer.	1
7	Convert the Following as Directed (i) $(534)_{10} = (?)_2$ (ii) $(101011)_2 = (?)_{10}$	2
8	What is RAM and why is it used?	2

### Section B

#### (Unit 2 - Computational Thinking and Programming - Python) [35 Marks]

Q. No.	Question	Marks
1	Which of the following is valid arithmetic operator in Python: (i) // (ii) ? (iii) < (iv) and	1
2	What is the value of the expression $4+2**5//10$ i) 1233 ii) 7 iii) 9 iv) 45	1
3	Which is the correct form of declaration of dictionary? (i) Day={1:'monday', 2:'tuesday', 3:'wednesday'} (ii) Day=(1;'monday', 2;'tuesday', 3;'wednesday') (iii) Day=[1:'monday', 2:'tuesday', 3:'wednesday'] (iv) Day={1'monday', 2'tuesday', 3'wednesday' }	1
4	Why does python report error for the following: str1 = "Hello" str1[2] = 'p'	1
5	Name the function that tells the data type of an object.	1

6	Write the following expressions using operators used in Python: i) $x = a^3 + b^3 + c^3$ ii) $A = \pi r(r+h)^2$	2
7	Identify the type of Token: i) D_o_j ii) True iii) * iv) if	2
8	Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. <del>30</del> =To for A in range( <del>0</del> , To) IF a%4== <del>0</del> : print (A*4) Else: print (A+3)	2
9	Find and write the output of the following python code: for i in range( <del>2</del> ): print(i)  for i in range( <del>4,6</del> ): print(i)	2
10	Find and write the output of the following python code: for x in range( <del>10,20</del> ): if( x % <del>2</del> ==0): continue print(x)	2
11	Find and write the output of the following python code: s = 'school2@com' k=len(s) m=""  for i in range( <del>0</del> ,k): if(s[i].isupper()): m=m+s[i].lower() elif s[i].isalpha(): m=m+s[i].upper() else: m=m+'bb' print(m)	2
12	Write a program to find <b>factorial</b> of any given number. Factorial of number 5 is 120 (factorial = 5x4x3x2x1). Consider the following example: <u>Input</u> : 5 <u>Output</u> : 120	2
13	Write a program to count the number of words in a given String. <u>Input</u> : Hello this is my world <u>Output</u> : Number of Words = 5	2
14	Write a program to find number of digits of a given integer (positive or negative). <u>Input</u> : -12389 <u>Output</u> : No. of digits = 5	2

15	Write a program in python to print Month name for the given month number. <u>Input</u> : Enter month number: 5 <u>Output</u> : It's May	4
16	What is sorting? Write a program in python to bubble sort an integer List.	4
17	Write a program in python to print the following pattern from a given String: <u>Input</u> : CBSE <u>Output</u> : C BB SSS EEEE	4

**Section C**  
**(Unit 3 - Data Management) [15 Marks]**

Q. No.	Question	Marks																																																															
1	Which key word is used to sort the records of a table in descending order?	1																																																															
2	Which command is used to modify the records of the table?	1																																																															
3	Name any 2 DDL commands.	1																																																															
4	Which clause is used to remove the duplicating rows of the table?	1																																																															
5	Write the full form of the following: (i) SQL (ii) DML	1																																																															
6	Write the SQL command to delete a table named – “product”.	1																																																															
7	Differentiate between Primary key and Candidate key.	2																																																															
8	Write an output for SQL queries (i) to (iii), which are based on the table: STUDENT	3																																																															
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>RollNo</th> <th>Name</th> <th>Class</th> <th>DOB</th> <th>Gender</th> <th>City</th> <th>Marks</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Nanda</td> <td>X</td> <td>06-06-1995</td> <td>M</td> <td>Agra</td> <td>551</td> </tr> <tr> <td>2</td> <td>Saurabh</td> <td>XII</td> <td>07-05-1993</td> <td>M</td> <td>Mumbai</td> <td>462</td> </tr> <tr> <td>3</td> <td>Sanal</td> <td>XI</td> <td>06-05-1994</td> <td>F</td> <td>Delhi</td> <td>400</td> </tr> <tr> <td>4</td> <td>Trisla</td> <td>XII</td> <td>08-08-1995</td> <td>F</td> <td>Mumbai</td> <td>450</td> </tr> <tr> <td>5</td> <td>Store</td> <td>XII</td> <td>08-10-1995</td> <td>M</td> <td>Delhi</td> <td>369</td> </tr> <tr> <td>6</td> <td>Marisla</td> <td>XI</td> <td>12-12-1994</td> <td>F</td> <td>Dubai</td> <td>250</td> </tr> <tr> <td>7</td> <td>Neha</td> <td>X</td> <td>08-12-1995</td> <td>F</td> <td>Moscow</td> <td>377</td> </tr> <tr> <td>8</td> <td>Nishant</td> <td>X</td> <td>12-06-1995</td> <td>M</td> <td>Moscow</td> <td>489</td> </tr> </tbody> </table>		RollNo	Name	Class	DOB	Gender	City	Marks	1	Nanda	X	06-06-1995	M	Agra	551	2	Saurabh	XII	07-05-1993	M	Mumbai	462	3	Sanal	XI	06-05-1994	F	Delhi	400	4	Trisla	XII	08-08-1995	F	Mumbai	450	5	Store	XII	08-10-1995	M	Delhi	369	6	Marisla	XI	12-12-1994	F	Dubai	250	7	Neha	X	08-12-1995	F	Moscow	377	8	Nishant	X	12-06-1995	M	Moscow	489	
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(i) SELECT COUNT(*) FROM STUDENT; (ii) SELECT DISTINCT city FROM STUDENT; (iii) SELECT NAME, GENDER FROM STUDENT WHERE CITY="Delhi";																																																																	
9	Write SQL queries for (i) to (iv), which are based on the table: STUDENT given in the question 8: (i) To display the records from table student in alphabetical order as per the name of the student. (ii) To display Class, Dob and City whose marks is between 450 and 551. (iii) To display Name and Class of students whose name's second letter is 'a'. (Nanda, Saurabh, Sanal, Marisla) (iv) To increase marks of all students by 20 whose class is "XII"	4																																																															

**Section D**  
**(Unit 4 - Society, Law and Ethics) [10 Marks]**

Q. No.	Question	Marks
1	Name any 2 social networking apps.	1
2	<div style="border: 1px solid black; padding: 10px; margin-bottom: 10px;"> <p><b>From:</b> Internal Revenue Service [mailto:admin@irs.gov]  <b>Sent:</b> Wednesday, March 01, 2006 12:45 PM  <b>To:</b> <a href="mailto:john.doe@jdoe.com">john.doe@jdoe.com</a>  <b>Subject:</b> IRS Notification - Please Read This .</p> <hr style="border: 1px solid black;"/> <p>After the last annual calculations of your fiscal activity we have determined that you are eligible to receive a tax refund of <b>\$63.80</b>. Please submit the tax refund request and allow us 6-9 days in order to process it.</p> <p>A refund can be delayed for a variety of reasons. For example submitting invalid records or applying after the deadline.</p> <p>To access the form for your tax refund, please <a href="#">click here</a></p> </div> <p>Ravi received a mail form IRS department ( as shown above). On clicking “ Click-Here”, he was taken to a site designed to imitate an official-looking website, such as IRS.gov. He uploaded some important information on it. Identify and explain the cybercrime being discussed in the above scenario.</p>	1
3	A computer program encrypts (lock by password) all your important documents on the computer and asks to deposit money in ceratin bank account to decrypt (unlock) those files. What that malicious program is known as?	1
4	What do you mean by a spyware?	1
5	What do you mean by a Trojan?	1
6	What is Phishing?	1
7	How can we protect our computer from cyber threats? (give only 2 points)	1
8	How can we hide our identity on the internet? (give only 2 points)	1
9	What is cyber Bullying? Give an example to explain it. (In short)	2